blizzard LIGHTING

PUCK Q12 RGBAW+

WIRELESS DMX wiCICLE® ENABLED

blizzard LIGHTING

Blizzard Lighting, LLC
www.blizzardlighting.com
Wisconsin, USA
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1. GETTING STARTED

What's In The Box?

- 1 x Puck™ Q12+ Flat LED PAR Fixture
- 1x IEC Power Cord
- This Lovely User Manual

Getting It Out Of The Box

Congratulations on being completely and utterly qtastic! Now that you've got The Puck™ Q12+ (or hopefully, *Pucks!*), you should carefully unpack the box and check the contents to ensure that all parts are present and in good condition. If anything looks as if it has been damaged in transit, notify the shipper immediately and keep the packing material for inspection. Again, please save the carton and all packing materials. If a fixture must be returned to the factory, it is important that the fixture be returned in the original factory box and packing.

Powering Up!

All fixtures must be powered directly off a switched circuit and **cannot be run off a rheostat (variable resistor) or dimmer circuit, even if the rheostat or dimmer channel is used solely for a 0% to 100% switch**.

AC Voltage Switch - Not all fixtures have a voltage select switch, so please verify that the fixture you receive is suitable for your local power supply. See the label on the fixture or refer to the fixture's specifications chart for more information. A fixture's listed current rating is its average current draw under normal conditions. Check the fixture or device carefully to make sure that if a voltage selection switch exists that it is set to the correct line voltage you will use.

Warning! ***Verify that the voltage select switch on your unit matches the line voltage applied. Damage to your fixture may result if the line voltage applied does not match the voltage indicated on the voltage selector switch. All fixtures must be connected to circuits with a suitable Ground (Earthing).***

Getting A Hold Of Us

If something is wrong, just give us a call or send an email. We'll be happy to help, honest.

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SAFETY INSTRUCTIONS

Please read these instructions carefully. They include important information about the installation, usage and maintenance of this product.

- Please keep this User Guide for future use. If you sell the unit to someone else, be sure that they also receive this User Guide.

- ALWAYS make sure that you are connecting to the proper voltage, and that the line voltage you are connecting to is not higher than that stated on the decal or rear panel of the fixture.

- This product is intended for indoor use only.

- To prevent risk of fire or shock, do not expose fixture to rain or moisture.

- Make sure there are no flammable materials close to the unit while operating.

- The unit must be installed in a location with adequate ventilation, at least 20in (50cm) from adjacent surfaces. Be sure that no ventilation slots are blocked.

- ALWAYS disconnect from the power source before servicing or replacing fuse and be sure to replace with same fuse size and type.

- ALWAYS secure fixture using a safety chain. NEVER carry the fixture by its cord. Use its carrying handles.

- DO NOT operate at ambient temperatures higher than 104°F (40°C).

- In the event of a serious operating problem, stop using the unit immediately. NEVER try to repair the unit by yourself. Repairs carried out by unskilled people can lead to damage or malfunction. Please contact the nearest authorized technical assistance center. Always use the same type spare parts.

- NEVER connect the device to a dimmer pack.

- Make sure the power cord is never crimped or damaged.

- Never disconnect the power cord by pulling or tugging on the cord.

- Avoid direct eye exposure to the light source while it is on.

Caution! There are no user serviceable parts inside the unit. Do not open the housing or attempt any repairs yourself. In the unlikely event your unit may require service, please contact Blizzard Lighting at support@blizzardlighting.com.

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2. MEET THE PUCK™ Q12+ FLAT LED PAR FIXTURE

MAIN FEATURES

• Superior RGBAW Color Mixing via 12 x 10-watt quad-color LED's (4 x 2.5W = 10W, 6 each RGBA & RGBW)
• Variable electronic strobe
• Variable electronic dimmer (0 – 100%)
• User selectable 3 (color macros), 5 (Red/Green/Blue/Amber/White dimming) or 12 DMX channels
• Built-in chase macros & sound active via DMX
• Full RGBAW color mixing plus 31 built-in colors in Standalone, Master/Slave and DMX modes.
• Linkable with all other Blizzard Lighting Puck™ Flat LED PAR Cans in standalone/ Master/Slave modes
• Built-in automated programs via master/slave
• Built-in sound activated programs via master/slave
• Easy to use LED control panel
• Running hours display
• Rugged all-metal case with dual mounting yokes
• IEC power in and daisy chain connections to connect additional units (MAX 4 UNITS PER CHAIN)
• Able to directly power the wiCICLE® wireless system via DMX
• Power and DMX connections and LED control panel are all in places which means you can truly use The Puck Q12+ in ANY position, including flat on the floor!
• Two-piece mounting yoke allows flexibility in positioning

DMX Quick Reference (12-Channel Mode)

Channel	What It Does
1	Dimmer
2	Strobe (0-15 off, 16-255 strobe slow <-> fast)
3	Red Intensity
4	Green Intensity
5	Blue Intensity
6	Amber Intensity
7	White Intensity
8	Color Snap
9	Snap Speed (0-15 off, 16-255 Snap Slow <--> Fast)
10	Color Fade
11	Fade Speed (0-15 off, 16-255 Snap Slow <--> Fast)
12	Sound Active (0-127 off, 128-255 Sound Active)

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DMX Quick Reference (3-Channel Mode)

Channel	What It Does					
1	Dimmer (0-15 off, 16-255 Dim <--> Bright)					
2	Strobe (0-15 off, 16-255 strobe slow <-> fast)					
3	Color Select					
	Value	**Red**	**Green**	**Blue**	**Amber**	**White**
	001-004	ON				
	005-008		ON			
	009-012			ON		
	013-016				ON	
	017-020					ON
	021-024	ON	ON			
	025-028	ON		ON		
	029-031	ON			ON	
	032-035	ON				ON
	036-039		ON	ON		
	040-043		ON		ON	
	044-047		ON			ON
	048-051			ON	ON	
	052-055			ON		ON
	056-059				ON	ON
	060-062			ON	ON	ON
	063-066		ON		ON	ON
	067-070		ON	ON		ON
	071-074		ON	ON	ON	
	075-078	ON			ON	ON
	079-082	ON		ON		ON
	083-086	ON		ON	ON	
	087-090	ON	ON			ON
	091-093	ON	ON		ON	
	094-097	ON	ON	ON		
	098-101	ON	ON	ON	ON	
	102-105	ON	ON	ON		ON
	106-109	ON	ON		ON	ON
	110-113	ON		ON	ON	ON
	114-117		ON	ON	ON	ON
	118-120	ON	ON	ON	ON	ON
	121-255 Chase (Slow <--> Fast)					

DMX Quick Reference (5-Channel Mode)

Channel	What It Does
1	Red Intensity
2	Green Intensity
3	Blue Intensity
4	Amber Intensity
5	White Intensity

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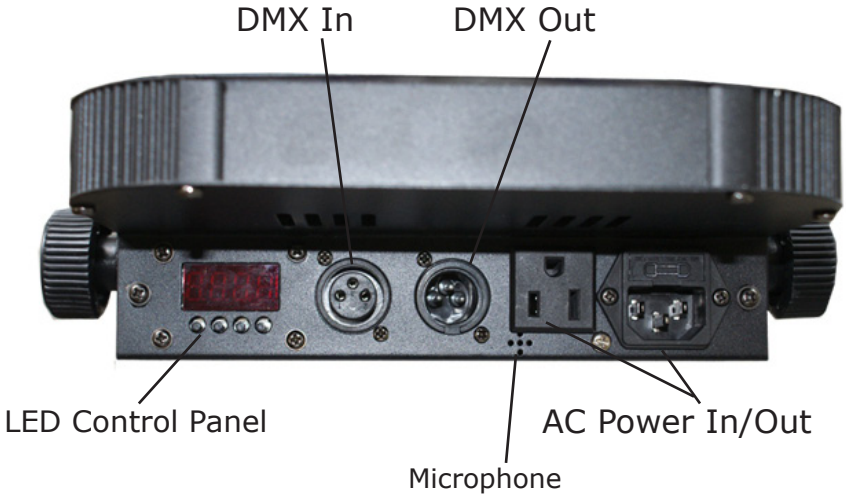
Figure 1: The Puck™ Q12+ Pin-Up Picture

Figure 2: The Rear Connections



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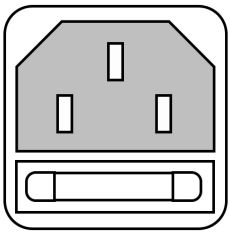
3. SETUP

Before replacing a fuse, disconnect power cord. ALWAYS replace with the same type and rating of fuse.



Fuse Replacement

With a flat head screwdriver, wedge the fuse holder out of its housing. Remove the damaged fuse from its holder and replace with exact same type fuse. Insert the fuse holder back in its place and reconnect power.

Connecting A Bunch of Puck™ Q12+ Flat LED PAR Cans

You will need a serial data link to run light shows using a DMX-512 controller or to run shows on two or more fixtures set to sync in master/slave operating mode. The combined number of channels required by all the fixtures on a serial data link determines the number of fixtures the data link can support.

Fixtures on a serial data link must be daisy chained in one single line. Also, connecting more than 32 fixtures on one serial data link without the use of a DMX optically-isolated splitter may result in deterioration of the digital DMX signal.
The maximum recommended cable-run distance is 500 meters (1640 ft). The maximum recommended number of fixtures on a serial data link is 32 fixtures.

Data/DMX Cabling

To link fixtures together you'll need data cables. You should use data-grade cables that can carry a high quality signal and are less prone to electromagnetic interference.

For instance, Belden© 9841 meets the specifications for EIA RS-485 applications. Standard microphone cables will "probably" be OK, but note that they cannot transmit DMX data as reliably over long distances. In any event, the cable should have the following characteristics:

2-conductor twisted pair plus a shield
Maximum capacitance between conductors – 30 pF/ft.
Maximum capacitance between conductor & shield – 55 pF/ft.
Maximum resistance of 20 ohms / 1000 ft.
Nominal impedance 100 – 140 ohms

USING THIS FIXTURE WITH THE wiCICLE® WIRELESS DMX SYSTEM

In addition to the unbridled thrill you already received the first time you plugged in your fixture, you'll be delighted to know that This fixture also works seamlessly with our wiCICLE® Wireless DMX system, without additional power.

• ONLY fixtures bearing this logo are certified for use with the wiCICLE® without external power.

• Unauthorized modification and/or using the wiCICLE® with unapproved fixtures may cause damage to the wiCICLE® or fixture. UNDER NO CIRCUMSTANCES IS BLIZZARD LIGHTING RESPONSIBLE FOR ANY DAMAGE FROM SUCH OPERATION.

• Fixtures bearing the above logo MUST only use cable and connectors which separate chassis/case ground from cable shielding. Cabling with the shield connected to the connector's case/chassis may cause malfunction and damage to the wiCICLE® or fixture.

• wiCICLE® transmitters have additional power requirements and therefore cannot be powered directly from the fixture. You will need to utilize the supplied AC/DC adaptor to drive wiCICLE® transmitters in your system.

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Each wiCICLE® acts as both a transmitter and a receiver, depending on whether a DMX source is applied to the integral XLR connector. This is an extremely powerful feature of the system, however, it also requires 1 piece of due dilligence, and that is the removal of extraneous DMX signals from your lighting rig BEFORE proceeding.

SO: BEFORE DOING ANYTHING ELSE, YOU SHOULD DISABLE ANY BUILT-IN PROGRAMS IN THE FIXTURES YOU WISH TO CONNECT AND/OR SET THEM AS SLAVES PRIOR TO RETURNING THEM TO DMX MODE (IF APPLICABLE). Most fixtures contain a built-in automatic, sound active or custom program which is designed to operate with the fixture NOT connected to a DMX chain.

Some of these programs will automatically run unless the fixture is set to slave mode. These fixtures typically sense DMX automatically and switch to DMX mode upon receiving DMX signal (our Pucks do that!)

If you plug a wiCICLE® "receiver" into an autosensing fixture set as a "master, "chances are good that the wiCICLE® "receiver" will begin transmitting the master program. Most times, this is undesirable, and taking the two seconds to switch these programs off will solve a lot of ails.

Got that done? Good! Then let's proceed!

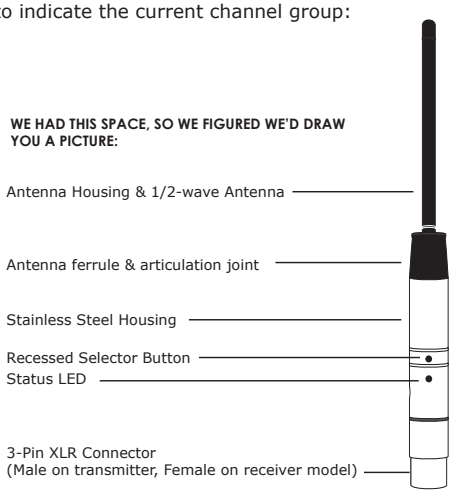
1. Plug the wiCICLE® Receiver into the "DMX IN" connector of the fixture and verify it is receiving power (the **STATUS LED** should illuminate.)
2. Connect the AC/DC adaptor to the the wiCICLE® Transmitter and verify it is receiving power (the **STATUS LED** should illuminate.)
3. Press the **RECESSED SELECTOR BUTTON** on the Transmitter to select the operating channel group. (The system will store this setting for future use)

The 7-Color Status LED will change color to indicate the current channel group:

· GROUP 1: **RED**
· GROUP 2: **GREEN**
· GROUP 3: **YELLOW**
· GROUP 4: **BLUE**
· GROUP 5: **VIOLET**
· GROUP 6: **CYAN**
· GROUP 7: **WHITE**

NOTE: "GROUP" number also corresponds to the "GROUP" setting on our LightCaster™ wireless DMX Transceiver.

WE HAD THIS SPACE, SO WE FIGURED WE'D DRAW YOU A PICTURE:


Antenna Housing & 1/2-wave Antenna
Antenna ferrule & articulation joint
Stainless Steel Housing
Recessed Selector Button
Status LED
3-Pin XLR Connector
(Male on transmitter, Female on receiver model)

4. Follow the same procedure on the Receiver to select the channel group.
5. Once both the transmitter and receiver(s) are both set to the same channel group, connect the transmitter to the DMX controller or the DMX out of a fixture on your DMX chain.
6. Once a DMX signal is provided to the transmitter, the status LED will blink **RED** slowly until communication is established with the receiver. The status LED on the receiver(s) will flash GREEN slowly until communication is established.
7. Once the clearest channel is auto-selected, the status LEDs will blink quickly on both the transmitter and receiver. NOTE: The color of the LED DURING operation does not indicate channel group, instead it indicates whether the unit is transmitting or receiving. **That's It!**

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4. OPERATING ADJUSTMENTS

NOTE: After making any change, the unit will return to the correct mode in about 10 seconds.

DMX Mode

Allows the unit to be controlled by any universal DMX controller.

1.) The default mode for the fixture is DMX, which appears as Addr on the LED Readout. Use the **<ENTER>** button then the **<UP>** and **<DOWN>** buttons to choose a channel between 1 and 512. Press **<ENTER>** again to confirm.

2.) To change between 3 and 6 channel DMX mode, select ChNd, then press **<ENTER>.** Select either 3Ch, 5Ch or 12Ch, then press **<ENTER>** again to confirm.

Master/Slave Mode (Auto/Sound Active/Color Preset/Custom):

1.) Use standard DMX cables to daisy chain your units together via the DMX connector on the rear of the units.

2.) Choose a unit to function as the Master. Select MAST. The master unit must be the first unit. Finally, chain the units together using DMX cable.

Master SLNd then MASt to confirm.

3.) Select slave function by using the **<UP>/<DOWN>** keys to reach SLAV in the Master/Auto menu on the slave units, and they will react in the same as the Master.

Slave SLNd then SLAu to confirm**.**

NOTE: When a unit is set to slave and no master is connected, StBy will appear on the LED display.

4.) On the master fixture, use the **<UP>/<DOWN>** keys to reach SHND, which allows you to select the Master/Slave mode.

Sound active	SoUn	then **<ENTER>** to confirm.	
Auto mode	CoLo	then	AuLo, then **<ENTER>** to confirm.
Color preset	CoLo	then	CoL 1-CoL 31, **<ENTER>**
Color strobe	StCo	then	0-255 (Slowest <-.-> Fastest)
		then	CoL 1-CoL 31, **<ENTER>**

To set a custom color in Master/Slave / Standalone Mode:

Using this function, you can select any color by adjusting the Red, Green, Blue, Amber and White values from 0-255. You may also adjust the color balance of the fixture.

Please note that modifying the values in this step will affect ALL modes, therefore we recommend resetting all levels to their highest value (255) after using this mode.

1.) Select MAnu from the control panel, then hit **<ENTER>**.

2.) Choose rEd, GrEE, bLuE, AMbE or Uht, then hit **<ENTER>** to confirm.

3.) Using the **<UP>/<DOWN>** keys, select the color you wish to display by varying Red/Green/Blue intensity between 0 and 255, then hit **<ENTER>** to confirm each color choice.

4.) Select Color preset mode as instructed above, then select CoL 15, then **<ENTER>** to confirm.

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To Show the Fixture Running Hours:

1.) Select FHrS from the control panel, then hit **<ENTER>** to confirm.

Menu Conventions

Addr = "ADDR," DMX Address Set/Adjust

ChMd = "CHMD," Channel Mode Adjust

3/5/12Ch = "3 Ch," 3/5/12-Channel DMX Mode

SLMd = "SLMD," Slave Mode Adjust

MASt = "MAST," Master, set the unit to Master Mode.

SLAv = "SLAV" Slave, set the unit to Slave Mode.

StbY = "STBY," Standby, unit is in Slave with no Master Fixture.

SHMd

SouN = "SOUN," Sound Active Mode.

CoLo = "COLO," Color Preset Mode.

Co XX = "CO 1 - CO31," Color Preset X.

AUto = "AUTO," Auto (Color Snap) Mode.

FAdE = "FADE," Color Fade Mode.

SP X = "SP 1 - SP 8," Fade Speed 1-8 (Fast <-> Slow)

StCo = "STCO," Color Strobe Mode.

Co XX = "CO 1 - CO31," Color Preset X.

MANu = "MANU," Manual Color / White Point Adjustment Mode.

REd = "RED," Adjust Red Intensity from 0 to 255.

GrEE = "GREE," Adjust Green Intensity from 0 to 255.

bLuE = "BLUE," Adjust Blue Intensity from 0 to 255.

AMbE = "AMBE," Adjust Amber Intensity from 0 to 255.

WhIt = "WHIT," Adjust White Intensity from 0 to 255.

FHrS = "FHRS," Displays Fixture Running Hours

tESt = "TEST," Test Mode.

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Quick Tips & Tricks:

Problem: The Puck LED readout says "StbY," (Standby), no output."

Solution: The Puck is in Slave mode with no master fixture connected.

Press <**MENU**>, select "SLnd," hit <**ENTER**>, select "nASt" by pressing up or down, hit <**ENTER**> to confirm. The unit will reset after approximately 10 seconds.

Problem: The Puck is only displaying certain colors (an entire color group of LEDs is dimly lit or entirely off.)

Solution: The manual color adjustments have been set at levels less than the full intensity for each color.

Press <**MENU**>, select "MAnu," and ensure that all of the color settings (rEd, GrEE, bLuE, AMbE or WHtE) are set to 255. This is the maximum value and the fixture should be left in this mode unless setting a custom standalone color (See page 9. Should the problem persist, please contact technical support.

Problem: The fade you've selected is too fast/too slow.

Solution: Press <**MENU**>, select "SHnd," hit <**ENTER**>, select "FAdE," hit <**ENTER**>, and select the speed by selecting "SP 1 - SP 8,". 1 is the fastest, 8 is the slowest.

Troubleshooting

Symptom	Solution
Fixture Auto-Shut Off	Check the fan in the fixture. If it is stopped or moving slower than normal, the unit may have shut itself off due to high heat. This is to protect the fixture from overheating. Clear the fan of obstructions, or return the unit for service.
Beam is Dim	Check optical system and clean excess dust/grime. Also ensure that the 220V/110V switch is in the correct position, if applicable.
No Light Output	Check to ensure fixture is operating under correct mode, IE sound active/auto/DMX/Etc., if applicable. Contact service for more information.
Chase Speed Too Fast/Slow	Check to ensure proper setup of speed adjustment.
No Power	Check fuse, AC cord and circuit for malfunction.
Slow Movement	Verify that 220V/110V switch is in the correct position, if applicable. Also check that speed channels are set appropriately.
No Response to Audio	Verify that the fixture is in "Sound Active" mode. Adjust Audio Sensitivity, If Applicable.
Fixture Not Responding / Responding Erraticly	Make sure all connectors are seated properly and securely. Use Only DMX Cables. Install a Terminator. Check all cables for defects. Reset fixture(s).

If your problem isn't listed, or if problems persist, please contact support: support@blizzardlighting.com.

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5. APPENDIX

A Quick Lesson On DMX

DMX (aka DMX-512) was created in 1986 by the United States Institute for Theatre Technology (USITT) as a standardized method for connecting lighting consoles to lighting dimmer modules. It was revised in 1990 and again in 2000 to allow more flexibility. The Entertainment Services and Technology Association (ESTA) has since assumed control over the DMX512 standard. It has also been approved and recognized for ANSI standard classification.

DMX covers (and is an abbreviation for) Digital MultipleXed signals. It is the most common communications standard used by lighting and related stage equipment.

DMX provides up to 512 control "channels" per data link. Each of these channels was originally intended to control lamp dimmer levels. You can think of it as 512 faders on a lighting console, connected to 512 light bulbs. Each slider's position is sent over the data link as an 8-bit number having a value between 0 and 255. The value 0 corresponds to the light bulb being completely off while 255 corresponds to the light bulb being fully on.

DMX data is transmitted at 250,000 bits per second using the RS-485 transmission standard over two wires. As with microphone cables, a grounded cable shield is used to prevent interference with other signals.

There are five pins on a DMX connector: a wire for ground (cable shield), two wires for "Primary" communication which goes from a DMX source to a DMX receiver, and two wires for a "Secondary" communication which goes from a DMX receiver back to a DMX source. Generally, the "Secondary" channel is not used so data flows only from sources to receivers. Hence, most of us are most familiar with DMX-512 as being employer over typical 3-pin "mic cables," although this does not conform to the defined standard.

DMX is connected using a daisy-chain configuration where the source connects to the input of the first device, the output of the first device connects to the input of the next device, and so on. The standard allows for up to 32 devices on a single DMX link.

Each receiving device typically has a means for setting the "starting channel number" that it will respond to. For example, if two 6-channel fixtures are used, the first fixture might be set to start at channel 1 so it would respond to DMX channels 1 through 6, and the next fixture would be set to start at channel 7 so it would respond to channels 7 through 12.

The greatest strength of the DMX communications protocol is that it is very simple and robust. It involves transmitting a reset condition (indicating the start of a new "packet"), a start code, and up to 512 bytes of data. Data packets are transmitted continuously. As soon as one packet is finished, another can begin with no delay if desired (usually another follows within 1 ms). If nothing is changing (i.e. no lamp levels change) the same data will be sent out over and over again. This is a great feature of DMX -- if for some reason the data is not interpreted the first time around, it will be re-sent shortly.

Not all 512 channels need to be output per packet, and in fact, it is very uncommon to find all 512 used. The fewer channels are used, the higher the "refresh" rate. It is possible to get DMX refreshes at around 1000 times per second if only 24 channels are being transmitted. If all 512 channels are being transmitted, the refresh rate is around 44 times per second.

In summary, since its design and evolution in the 1980's DMX has become the standard for lighting control. It is flexible, robust, and scalable, and its ability to control everything from dimmer packs to moving lights to foggers to lasers makes it an indispensible tool for any lighting designer or lighting performer.

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Keeping Your Puck™ Q12+ As Good As New

The fixture you've received is a rugged, tough piece of pro lighting equipment, and as long as you take care of it, it will take care of you. That said, like anything, you'll need to take care of it if you want it to operate as designed. You should absolutely keep the fixture clean, especially if you are using it in an environment with a lot of dust, fog, haze, wild animals, wild teenagers or spilled drinks.

Cleaning the optics routinely with a suitable glass cleaner will greatly improve the quality of light output. Keeping the fans free of dust and debris will keep the fixture running cool and prevent damage from overheating.

In transit, keep the fixtures in cases. You wouldn't throw a prized guitar, drumset, or other piece of expensive gear into a gear trailer without a case, and similarly, you shouldn't even think about doing it with your shiny new light fixtures.

Common sense and taking care of your fixtures will be the single biggest thing you can do to keep them running at peak performance and let you worry about designing a great light show, putting on a great concert, or maximizing your client's satistfaction and "wow factor." That's what it's all about, after all!

Returns (Gasp!)

We've taken a lot of precautions to make sure you never even have to worry about sending a defective unit back, or sending a unit in for service. But, like any complex piece of equipment designed and built by humans, once in a while, something doesn't go as planned. If you find yourself with a fixture that isn't behaving like a good little fixture should, you'll need to obtain a Return Authorization (RA).

Don't worry, this is easy. Just send an email to support@blizzardlighting.com, and we'll issue you an RA. Then, you'll need to send the unit to us using a trackable, pre-paid freight method. We suggest using USPS Priority or UPS. Make sure you carefully pack the fixture for transit, and whenever possible, use the original box & packing for shipping.

When returning your fixture for service, be sure to include the following:

1.) Your contact information (Name, Address, Phone Number, Email address).
2.) The RA# issued to you
3.) A brief description of the problem/symptoms.

We will, at our discretion, repair or replace the fixture. Please remember that any shipping damage which occurs in transit to us is the customer's responsibility, so pack it well!

Shipping Issues

Damage incurred in shipping is the responsibility of the shipper, and must be reported to the carrier immediately upon receipt of the items. Claims must be made within seven (7) days of receipt.

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Tech Specs!

Weight & Dimensions			
Length	8.25 inches (210 mm)		
Width	3.75 inches (95.25 mm)		
Height	7.5 inches (190 mm)		
Weight	5.2 lbs (2.4 kg)		
Power			
Operating Voltage	Auto-ranging 100 V ~ 240 V 50/60 Hz		
Fuse	3A 250V		
Power & Current	120 V, 60 Hz; 96 W, 1.27 A (operating), 1.30 A (inrush) 230 V, 50 Hz; 96 W, 0.42 A (operating), 0.43 A (inrush)		
Light Source			
LED	12 x 10W LEDs, 60,000 hrs (6 each RGBA, RGBW)		
Optical			
Beam Angle	25 degrees 29 degree field		
Luminous Intensity		1 Meter	2 Meter
	ALL	17,500 Lux	4,430 Lux
	RGBW	15,800 Lux	4,210 Lux
	RGBA	13,200 Lux	3,600 Lux
	Red	4,020 Lux	1,090 Lux
	Green	4,060 Lux	1,100 Lux
	Blue	5,210 Lux	1,350 Lux
	Amber	1,820 Lux	520 Lux
	White	4,160 Lux	950 Lux
Thermal			
Max. Operating Temp.	104 degrees F (40 degrees C) ambient		
Control			
Protocol	USITT DMX-512		
DMX Channels	3/5/12 (User Selectable)		
Input	3-pin XLR Male		
Output	3-pin XLR Female		
Other Operating Modes	Standalone, Master/Slave, Sound Active, Color Preset, Standalone color mixing		
Military Callsign			
Tango-Papa-Quebec-One-Two-Alpha (Q12+A) *or* Tango-Papa-Quebec-One-Two-Whiskey (Q12+W)			
Warranty	2-year limited warranty, does not cover malfunction caused by damage to LED's.		

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Enjoy your product!
Our sincerest thanks for your purchase!
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